STIC Search Report
EIC 2100

STIC Database Tracking Number: 140730

TO: Rainier Suazo **Location:** 4C71 **Art Unit :** 2144 **Case Serial Number:** 09/893,311	**From: Carol Wong** **Location: EIC 2100** 4B30 **Phone:** 272-3513 **carol.wong@uspto.gov**

Search Notes

Dear Examiner

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Color of tag has no significance. Pls review all documents, since untagged items might also be of interest. If you wish to order the complete text of any document, pls submit request(s) directly to EIC 2100 Reference Staff located in 4B28.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case. Finally, pls complete the attached Search Results Feedback Form, as the EIC/STIC is continually soliciting examiners' opinion of the search service.

Thanks,
Carol

Questions:
IP address = Network address?
dataset = packet?

STIC EIC 2100 Search Request Form

140780

Today's Date: 12/20/04

What date would you like to use to limit the search?

Priority Date: Other:

Name Rainier Suazo

AU 2144 Examiner # 80405

Room # 4C71 Phone 571 272 3931

Serial # 09/973,311

Format for Search Results (Circle One):

PAPER DISK (EMAIL)

Where have you searched so far?

(USP) (DWPI) (EPO) (JPO) ACM (IBM TDB)

(IEEE) INSPEC SPI Other

Is this a "Fast & Focused" Search Request? (Circle One) (YES) NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

09973311

- The client and the server are synchronized.
- The server changes its IP dynamically.
- The client changes the IP of the request.
- Each IP is associated with a subset of a dataset.

Motivations: security, Intrusion prevention

Synonyms: subset of a dataset is a segment or fragment of a file.

STIC Searcher C. Wong Phone 272-3513

Date picked up 12-21 Date Completed 12-21-04

Search and Information Resources Administration

File 348:EUROPEAN PATENTS 1978-2004/Dec W02
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20041216,UT=20041209
(c) 2004 WIPO/Univentio

Set	Items	Description
S1	14262	(IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC?)
S2	19753	(DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR TCPIP OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOTTED(1W)QUAD? ?
S3	23785	DATASET? ? OR DATA()SET? ?
S4	1148773	FRAGMENT?? ? OR SEGMENT? OR SUBSET? ? OR SUB()SET? ? OR DIVID? OR DIVISION? OR SUBDIVIS? OR SUBDIVID? OR PORTION? OR REDIVID? OR REDIVIS?
S5	1472262	SECTION? OR PIECE OR PIECES OR PARTIAL? OR PARTITION? OR PART OR PARTS
S6	130981	S4:S5(3N)(TEXT OR TEXTFILE? OR TEXTUAL OR TEXTDATA OR TEXTMESSAG? OR ECONTENT? OR CONTENT? ? OR DATA OR FILE OR FILES OR MESSAGE? OR DOCUMENT? ?)
S7	8065	S4:S5(3N)RECORD? ?
S8	6	S4:S5(3N)(IMAGEFILE? OR MEDIAFILE? OR SOUNDFILE? OR SONGFILE? OR AUDIOFILE? OR AVFILE? OR VIDEOFILE? OR MUSICFILE?)
S9	32168	S4:S5(3N)OBJECT? ?
S10	2854	S1:S2(3N)(DYNAMIC? OR CHANG??? ? OR VARY? OR VARIE? OR VARIANT? OR VARIAT? OR SHIFT? OR DIFFERENT OR ITERAT? OR PERMUT? OR VERSION?)
S11	835	S1:S2(3N)(ROTAT? OR RECONFIGUR? OR ALTERR? OR ALTER OR ALTERS OR ALTERED OR ALTERING OR ALTERATION? OR MODIFY? OR MODIFIE? ? OR MODIFICAT?)
S12	671	S1:S2(3N)(HETEROGEN? OR INHOMOGENE? OR DIVERS? OR ALTERNAT? OR SIWTCH? OR REDEFIN? OR RE()(CONFIGUR? OR DEFIN?????? ?))
S13	7	S3(25N)S10:S12
S14	71	S6:S9(25N)S10:S12
S15	200077	SERVER? OR HOST? ? OR RAS OR CLIENTSERVER? OR GATEWAY? OR GATE()WAY? ? OR MAILSERVER? OR MULTISERVER? OR WEBSERVER? OR FILESERVER? OR HTTPSERVER?
S16	35	S14(25N)S15
S17	41	S13 OR S16
S18	41	IDPAT (sorted in duplicate/non-duplicate order)
S19	41	IDPAT (primary/non-duplicate records only)

19/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01099000
METHOD AND SYSTEM FOR SUPPORTING WIRELESS COMMUNICATIONS WITHIN AN INTERNETWORK
VERFAHREN UND METHODE ZUR UNTERSTUETZUNG VON DRAHTLOSER UEBERTRAGUNG INNERHALB EINES INTERNETZWERKES
PROCEDE ET SYSTEME DE PRISE EN CHARGE DE COMMUNICATIONS SANS FIL AU SEIN DE RESEAUX INTERCONNECTES
PATENT ASSIGNEE:
Siemens Information and Communication Networks, Inc., (2616910), 900 Broken Sound Parkway, Boka Raton, Florida 33487, (US), (Proprietor designated states: all)
INVENTOR:
JACOBI, Eli, 3128 David Avenue, Palo Alto, CA 94303, (US)

KORPI, Markku, Angerstrasse 7, D-82319 Starnberg, (DE)
KOZDON, Peter, J., 2252 Pyle Court, Santa Clara, CA 95051, (US)
LEGAL REPRESENTATIVE:
French, Clive Harry et al (91004), Siemens AG, PO Box 22 16 34, 80506 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1070421 A1 010124 (Basic)
EP 1070421 B1 040908
WO 1999052265 991014
APPLICATION (CC, No, Date): EP 99908344 990222; WO 99US3789 990222
PRIORITY (CC, No, Date): US 57352 980408
DESIGNATED STATES: DE; ES; FR; GB
INTERNATIONAL PATENT CLASS: H04M-007/00; H04Q-007/24
CITED PATENTS (EP B): EP 758189 A; EP 828398 A; US 5726984 A
CITED PATENTS (WO A): XP 438674 ; XP 524640 ; XP 300088 ; XP 690059

CITED REFERENCES (EP B):
WONG P ET AL: "MOBILE COMPUTING IN A LAN ENVIRONMENT" SERVING HUMANITY THROUGH COMMUNICATIONS. SUPERCOMM/ICC, NEW ORLEANS, MAY 1 - 5, 1994, vol. 2, 1 May 1994, pages 1116-1120, XP000438674 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ENG K Y ET AL: "A WIRELESS BROADBAND AD-HOC ATM LOCAL-AREA NETWORK" WIRELESS NETWORKS, vol. 1, no. 2, 1 July 1995, pages 161-173, XP000524640
COHEN D ET AL: "IP ADDRESSING AND ROUTING IN A LOCAL WIRELESS NETWORK" ONE WORLD THROUGH COMMUNICATIONS, FLORENCE, MAY 4 - 8, 1992, vol. 2, no. CONF. 11, 1 January 1992, pages 626-632, XP000300088 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
MASCOLI M ET AL: "ALTERNATIVE SCENARIOS FOR DATA APPLICATIONS VIA INTERNET-MOBILE AND DECT-ATM INTERWORKING" 1995 FOURTH IEEE INTERNATIONAL CONFERENCE ON UNIVERSAL PERSONAL COMMUNICATIONS RECORD, GATEWAY TO THE 21ST. CENTURY TOKYO, NOV. 6 - 10, 1995, no. CONF. 4, 6 November 1995, pages 788-792, XP000690059 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS;
CITED REFERENCES (WO A):
WONG P ET AL: "MOBILE COMPUTING IN A LAN ENVIRONMENT" SERVING HUMANITY THROUGH COMMUNICATIONS. SUPERCOMM/ICC, NEW ORLEANS, MAY 1 - 5, 1994, vol. 2, 1 May 1994, pages 1116-1120, XP000438674 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ENG K Y ET AL: "A WIRELESS BROADBAND AD-HOC ATM LOCAL-AREA NETWORK" WIRELESS NETWORKS, vol. 1, no. 2, 1 July 1995, pages 161-173, XP000524640
COHEN D ET AL: "IP ADDRESSING AND ROUTING IN A LOCAL WIRELESS NETWORK" ONE WORLD THROUGH COMMUNICATIONS, FLORENCE, MAY 4 - 8, 1992, vol. 2, no. CONF. 11, 1 January 1992, pages 626-632, XP000300088 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
MASCOLI M ET AL: "ALTERNATIVE SCENARIOS FOR DATA APPLICATIONS VIA INTERNET-MOBILE AND DECT-ATM INTERWORKING" 1995 FOURTH IEEE INTERNATIONAL CONFERENCE ON UNIVERSAL PERSONAL COMMUNICATIONS RECORD, GATEWAY TO THE 21ST. CENTURY TOKYO, NOV. 6 - 10, 1995, no. CONF. 4, 6 November 1995, pages 788-792, XP000690059 INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS;
NOTE:
No A-document published by EPO
LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	010124	A1	Published application with search report
Application:	991215	A1	International application. (Art. 158(1))
Grant:	040908	B1	Granted patent
Change:	030702	A1	Legal representative(s) changed 20030514
Examination:	010124	A1	Date of request for examination: 20000922
Examination:	030910	A1	Date of dispatch of the first examination report: 20030729

Application: 991215 A1 International application entering European phase
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200437	950
CLAIMS B	(German)	200437	1062
CLAIMS B	(French)	200437	1120
SPEC B	(English)	200437	4980

Total word count - document A 0
Total word count - document B 8112
Total word count - documents A + B 8112
...SPECIFICATION 34 was previously registered with the third router-server 36, which stored a third registration **data set** , that included a third **dynamic IP** -telephony **address** assigned to the cellular phone 34 and included the universally applied cellular phone identifier. It...

19/5,K/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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01179294 **Image available**
METHOD AND SYSTEM FOR ENCRYPTION AND STORAGE OF INFORMATION
METHODE ET SYSTEME DE CODAGE ET DE STOCKAGE D'INFORMATIONS
Patent Applicant/Inventor:
TALVITIE Jarmo, Rajamaentie 46, FI-04340 TUUSULA, FI, FI (Residence), FI (Nationality)
Legal Representative:
BERGGREN OY AB (agent), P. O. Box 16||(Jaakonkatu 3 A), FI-00101 HELSINKI , FI,
Patent and Priority Information (Country, Number, Date):
Patent: WO 2004102867 A1 20041125 (WO 04102867)
Application: WO 2004FI291 20040514 (PCT/WO FI04000291)
Priority Application: FI 2003745 20030516
Designated States:
(All protection types applied unless otherwise stated - for applications 2004+)
AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-009/00
Publication Language: English
Filing Language: Finnish
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 17384

English Abstract
The invention relates to a method and system for data encryption implemented in conjunction with data transmission over a communications network. According to the invention, an electronic message can be split into at least two parts that are individually forwarded to a receiver (126) via different identities (104, 106, 108, 110). The identities are,

e.g., e-mail addresses, servers, subscriber connections or user identifiers. The selection of the identities, advantageously of a concealed character, can be made from a larger group of identities and may be varied on a per message, session or timed basis. Also in the receiving direction of the message it is possible to use plural different identities (114, 116, 118, 120) in the reception of a message. The received parts of the message can be identified among other traffic flow and subsequently combined with each other using key information. The arrangement disclosed herein may also be applied to data storage.

French Abstract

L'invention concerne un methode et un systeme pour un codage de donnees mis en oeuvre conjointement a une transmission de donnees dans un reseau de communication. Selon l'invention, un message electronique peut etre divise en au moins deux parties individuellement acheminees vers un recepteur (126) par des identites differentes (104, 106, 108, 110). Ces identites sont, par exemple, des adresses e-mail, des serveurs, des connexions d'abonnes ou des identificateurs d'utilisateurs. La selection de ces identites, avantageusement d'un caractere cache, peut etre effectuee a partir d'un groupe plus large d'identites et peut varier en fonction du message, de la session ou du moment. Dans la direction de reception du message, il est possible d'utiliser plusieurs identites differentes (114, 116, 118, 120), au niveau de la reception du message. Les parties du message recues peuvent etre identifiees dans le flux de trafic et subsequemment combinees les unes aux autres, au moyen d'informations-cle. L'agencement de l'invention peut egalement s'appliquer a un stockage de donnees.

Legal Status (Type, Date, Text)
Publication 20041125 A1 With international search report.
Publication 20041125 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:
Detailed Description

Detailed Description
... sending-end servers 104 - 1 1 0 can be fimctionally aliased even by a single **server** that is programmed to change its identity such as its network address identified by a **dynamic IP address** , for instance, between the transmission sessions of the different **parts** of the **message** . This approach, however, falls behind a system of multiple parallel-operating **servers** as to its theoretical maximum data rate because the parts of a message must be...

19/5,K/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

01025071 **Image available**
CAMOUFLAGE OF NETWORK TRAFFIC TO RESIST ATTACK
CAMOUFLAGE DE TRAFIC DE RESEAU POUR RESISTER A UNE ATTAQUE
Patent Applicant/Assignee:
THE CHARLES STARK DRAPER LABORATORY INC, 555 Technology Square, Cambridge, MA 02139-3563, US, US (Residence), US (Nationality)
Inventor(s):
SHU Li, 20 Acre Road, Billerica, MA 01821, US,
WEINSTEIN William, 17 Concord Avenue, Belmont, MA 02478, US,
Legal Representative:

ROSE Jamie H (agent), Testa, Hurwitz & Thibeault, LLP, High Street Tower, 125 High Street, Boston, MA 02110, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200355175 A1 20030703 (WO 0355175)
Application: WO 2002US40266 20021217 (PCT/WO US0240266)
Priority Application: US 200125017 20011219
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: H04L-029/06
International Patent Class: H04L-012/56; H04L-012/46
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 10360

English Abstract
An apparatus for transmitting a file through a network includes a file-splitting processor that splits the file into a plurality of message segments and addresses the plurality of message segments to a plurality of addresses assigned to a receiving host. The apparatus includes a message segment transmitting the plurality of message segments to the receiving host.

French Abstract
L'invention concerne un dispositif de transmission d'un fichier sur un reseau, qui comprend un processeur de division de fichier, lequel divise le fichier en une pluralite de segments de message et adresse ceux-ci a une pluralite d'adresses attribuees a un hote recepteur. Le dispositif comprend un emetteur de segments de message pour transmettre la pluralite de segments de message a l'hote recepteur.

Legal Status (Type, Date, Text)
Publication 20030703 A1 With international search report.
Publication 20030703 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Fulltext Availability:
Detailed Description

Detailed Description
... denial-of service attacks can be monitored by observing the arrival or non-arrival of **message segments** at a **host** .
For additional security, the N **IP addresses** can be **dynamically** reassigned from a pool of addresses. By limiting the number of IP addresses that are...
? t19/5,k/7

19/5,K/7 (Item 7 from file: 349)

01002573 **Image available**

IP HOPPING FOR SECURE DATA TRANSFER

SAUTS D'IP POUR TRANSMISSION DE DONNEES SECURISEE

Patent Applicant/Assignee:
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
TROVATO Karen, Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL,
Legal Representative:
GROENENDAAL Antonius W M (agent), Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200332603 A2-A3 20030417 (WO 0332603)
Application: WO 2002IB3903 20020920 (PCT/WO IB02003903)
Priority Application: US 2001973311 20011009
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
CN JP KR
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
Main International Patent Class: H04L-029/06
International Patent Class: H04L-029/12
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3618

English Abstract
The IP address for requesting data within a **data set** is changed during the transfer of the **data set** . This changing address may include the **IP addresses** of **different** ports on a server, or may indicate the **IP addresses** of **different** servers. The pattern of changes of the IP address is known to both the client and the server(s), and preferably secret from others. Without knowing the pattern of **changes** of **IP addresses** , it will be difficult for an eavesdropper to intercept the **data set** . To further enhance the security of this approach, the server system is configured to expect subsequent requests at the **changed IP address** . If the subsequent requests do not arrive within a threshold time period, the server system is configured to terminate further access to the **data set** by the requestor.

French Abstract
L'adresse IP destinee a la demande de donnees a l'interieur d'un ensemble de donnees est modifiee pendant le transfert de l'ensemble de donnees. Cette adresse changeante peut comprendre des adresses IP de ports differents sur un serveur ou indiquer les adresses IP de serveurs differents. Le diagramme des changements de l'adresse IP est connu au client comme au(x) serveur(s) mais est de preference cache aux autres. Sans connaitre les changements de l'adresse IP, il serait difficile a un materiel d'espionnage electronique d'intercepter l'ensemble de donnees. Pour augmenter davantage le degre de securite offert par cette technique, le systeme de serveur est configure pour attendre les demandes suivantes a l'adresse IP modifiee. Si les requetes subsequentes n'arrivent pas dans une periode de temps de seuil, le systeme de serveur est configure pour terminer l'acces ulterieur a l'ensemble de donnees par la partie emettrice de la demande

Legal Status (Type, Date, Text)
Publication 20030417 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20040603 Late publication of international search report
Republication 20040603 A3 With international search report.
Fulltext Availability:
Detailed Description
Claims

English Abstract

The IP address for requesting data within a data set is changed during the transfer of the **data set** . This changing address may include the **IP addresses** of **different** ports on a server, or may indicate the **IP addresses** of **different** servers. The pattern of changes of the IP address is known to both the client and the server(s), and preferably secret from others. Without knowing the pattern of **changes** of **IP addresses** , it will be difficult for an eavesdropper to intercept the **data set** . To further enhance the security of this approach, the server system is configured to expect subsequent requests at the **changed IP address** . If the subsequent requests do not arrive within a threshold time period, the server system is configured to terminate further access to the **data set** by the requestor.

Detailed Description

... by providing a system and protocol wherein the IP address for requesting data within a **data set** is changed during the transfer of the **data set** . This changing address may include the **IP addresses** of **different** ports on a server, or may indicate the **IP addresses** of **different** servers. The pattern of changes of the IP address ...client and the server(s), and preferably secret from others.

Without knowing the pattern of **changes** of **IP addresses** , it will be difficult for an eavesdropper to intercept the **data set** . To further enhance the security of this approach, the server(s) is configured to expect subsequent requests at the **changed IP address** . If the subsequent requests do not arrive within a threshold time period, the server(s) is configured 1 5 to terminate further access to the **data set** by the requestor.

The invention is explained in further detail, and by way of example, ... algorithm. The address-switching algorithm may 5 include any of a variety of schemes for **changing IP addresses** , preferably in a pattern that is difficult to deduce, absent a "key" to this algorithm.

In a simple embodiment, the **data set** may be distributed among a variety of servers, and the key to the algorithm is...

Claim

... access to a data set (250), comprising:
- associating (240) each subset of data comprising the **data set** (250) to a select P address of a plurality of IP addresses (230), at least two of the subsets comprising the **data set** (250) having **different** select **IP addresses** of the plurality of IP addresses (230), and - providing (320) access to each subset of the **data set** (250) via a request for the subset at the select IP address associated with the... address,
selecting (I 1 0) a second IP address that is associated with a second **subset** of the **data set** (250), the second **IP address** being

? t19/5,k/38

19/5,K/38 (Item 38 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00520913 **Image available**
METHOD AND SYSTEM FOR SUPPORTING WIRELESS COMMUNICATIONS WITHIN AN INTERNETWORK
PROCEDE ET SYSTEME DE PRISE EN CHARGE DE COMMUNICATIONS SANS FIL AU SEIN DE RESEAUX INTERCONNECTES
Patent Applicant/Assignee:
SIEMENS INFORMATION AND COMMUNICATION NETWORKS INC,
Inventor(s):
JACOBI Eli,
KORPI Markku,
KOZDON Peter J,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9952265 A1 19991014
Application: WO 99US3789 19990222 (PCT/WO US9903789)
Priority Application: US 9857352 19980408
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
CA CN IL AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: H04M-007/00
International Patent Class: H04Q-007/24
Publication Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 5813

English Abstract
A system and method for supporting communications among multiple interconnected networks (10, 12, 13, 14) include assigning multiple dynamic telephony addresses to each wireless communication device (34) that registers in more than one network. The networks assign the addresses independently of each other. When an incoming call is directed to a particular wireless device via a first network, if the wireless device is beyond the transmission range of the first network, a locate-wireless-communication-device message may be single-cast, multicast or broadcast to remote networks, with instructions to return dynamic telephony addresses assigned to the device. While the telephony addresses are different in each network, each wireless device is associated with a device identifier that is universally applied in the internetwork. Upon receiving a telephony address from a remote network, the address is stored in local memory at the first network, thereby allowing access for subsequent incoming calls.

French Abstract
L'invention concerne un systeme et un procede permettant la prise en charge de communications dans de multiples reseaux interconnectes (10, 12, 13, 14). Ledit procede consiste a attribuer de multiples adresses telephoniques dynamiques a chaque dispositif de communication sans fil (34) qui est rattache a plus d'un reseau. Les reseaux attribuent les adresses independamment les unes des autres. Lorsqu'un appel entrant est dirige vers un dispositif sans fil particulier sur un premier reseau, si le dispositif sans fil est hors de portee du premier reseau, un message de localisation de dispositif de communication sans fil peut etre envoye

a un seul destinataire, a des destinataires multiples ou radiodiffuse a des reseaux eloignes, avec l'instruction de renvoyer les adresses telephoniques dynamiques attribuees au dispositif. Alors que les adresses telephoniques sont differentes dans chaque reseau, chaque dispositif sans fil est associe a un identificateur de dispositif applique de maniere universel dans l'ensemble de reseaux interconnectes. Des la reception d'une adresse telephonique en provenance d'un reseau eloigne, l'adresse est memorisee dans une memoire locale au niveau du premier reseau, ce qui permet l'acces pour d'autres appels entrants ulterieurs.

Fulltext Availability:
Detailed Description

Detailed Description
... 34 was previously registered with the third router-server 36, which stored a third registration **data set** , that included a third **dynamic IP** -telephony **address** assigned to the cellular phone 34 and
included the universally applied cellular phone identifier. It...
?

```
File   9:Business & Industry(R) Jul/1994-2004/Dec 20
         (c) 2004  The Gale Group
File  13:BAMP 2004/Dec W2
         (c) 2004  The Gale Group
File  16:Gale Group PROMT(R) 1990-2004/Dec 21
         (c) 2004 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2004/Dec 21
         (c) 2004 The Gale group
File 148:Gale Group Trade & Industry DB 1976-2004/Dec 21
         (c)2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2004/Dec 21
         (c) 2004 The Gale Group
File 570:Gale Group MARS(R) 1984-2004/Dec 21
         (c) 2004 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Dec 21
         (c) 2004 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2004/Dec 21
         (c) 2004 The Gale Group
File 649:Gale Group Newswire ASAP(TM) 2004/Dec 14
         (c) 2004 The Gale Group

Set     Items   Description
S1      56997   (IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR
             IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR
              ALPHANUMERIC?)
S2     205746   (DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR -
             TCPIP OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOT-
             TED(1W)QUAD? ?
S3      52925   DATASET? ? OR DATA()SET? ?
S4    7700478   FRAGMENT?? ? OR SEGMENT? OR SUBSET? ? OR SUB()SET? ? OR DI-
             VID? OR DIVISION? OR SUBDIVIS? OR SUBDIVID? OR PORTION? OR RE-
             DIVID? OR REDIVIS?
S5    9416686   SECTION? OR PIECE OR PIECES OR PARTIAL? OR PARTITION? OR P-
             ART OR PARTS
S6     282548   S4:S5(3N)(TEXT OR TEXTFILE? OR TEXTUAL OR TEXTDATA OR TEXT-
             MESSAG? OR ECONTENT? OR CONTENT? ? OR DATA OR FILE OR FILES OR
              MESSAGE? OR DOCUMENT? ?)
S7      59526   S4:S5(3N)RECORD? ?
S8         28   S4:S5(3N)(IMAGEFILE? OR MEDIAFILE? OR SOUNDFILE? OR SONGFI-
             LE? OR AUDIOFILE? OR AVFILE? OR VIDEOFILE? OR MUSICFILE?)
S9      11146   S4:S5(3N)OBJECT? ?
S10     13522   S1:S2(3N)(DYNAMIC? OR CHANG??? ? OR VARY? OR VARIE? OR VAR-
             IANT? OR VARIAT? OR SHIFT? OR DIFFERENT OR ITERAT? OR PERMUT?
             OR VERSION?)
S11       805   S1:S2(3N)(ROTAT? OR RECONFIGUR? OR ALTERR? OR ALTER OR ALT-
             ERS OR ALTERED OR ALTERING OR ALTERATION? OR MODIFY? OR MODIF-
             IE? ? OR MODIFICAT?)
S12      1175   S1:S2(3N)(HETEROGEN? OR INHOMOGENE? OR DIVERS? OR ALTERNAT?
              OR SIWTCH? OR REDEFIN? OR RE()(CONFIGUR? OR DEFIN?????? ?))
S13   3061688   SERVER? OR HOST? ? OR RAS OR CLIENTSERVER? OR GATEWAY? OR -
             GATE()WAY? ? OR MAILSERVER? OR MULTISERVER? OR WEBSERVER? OR -
             FILESERVER? OR HTTPSERVER?
S14        14   S3(S)S10:S12
S15        36   S6:S9(S)S10:S12
S16        46   S14:S15
S17         8   S16/2002:2004
S18        38   S16 NOT S17
S19        24   RD (unique items)
```

19/3,K/4 (Item 1 from file: 13)
DIALOG(R)File 13:BAMP

1186178 Supplier Number: 02648902 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Coping with the Trillion-Page Web
(As one-trillion-page Web approaches, spiders may be able to continue to offer meaningful search results because hardware capacity is growing as fast as the Web is growing)
Article Author(s): Wiggins, Richard W
Library Journal netConnect Supplement, p 26-28
Fall 2000
DOCUMENT TYPE: Journal ISSN: 0363-0277 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 3170

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...even exist until a user fills in a form and requests them. Moreover, a given **piece** of **content** , such as an FAQ, might appear on multiple servers. And a path to a particular document might exist under multiple variants of a given URL, with **variations** of the **domain** **name** and the file specification actually mapping to the same document. All web spiders attempt to...

19/3,K/19 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)

01993327 SUPPLIER NUMBER: 18726602 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A white paper: building client-server applications on the HP 3000. (Part 2) (Technology Tutorial)
Hall, Rohan
HP Professional, v10, n9, p39(4)
Sep, 1996
ISSN: 0896-145X LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1661 LINE COUNT: 00134

... The Department of Defense (DoD) Advanced Research Projects Agency (ARPA) devised the concept of sending **data** via packets (**pieces** at a time) between computers. These packets contain both data and addressing information (IP address...of the platform. Some features of ARPA services include ftp (File Transfer Protocol), telnet and **TCP / IP** .
Until **version** 5.0, ARPA services were not a standard part of the HP 3000 operating systems...
?

```
File 696:DIALOG Telecom. Newsletters 1995-2004/Dec 20
         (c) 2004 The Dialog Corp.
File  15:ABI/Inform(R) 1971-2004/Dec 21
         (c) 2004 ProQuest Info&Learning
File  98:General Sci Abs/Full-Text 1984-2004/Sep
         (c) 2004 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
         (c) 2004 United Business Media
File 141:Readers Guide 1983-2004/Sep
         (c) 2004 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2004/Dec W2
         (c) 2004 ProQuest
File 608:KR/T Bus.News. 1992-2004/Dec 20
         (c)2004 Knight Ridder/Tribune Bus News
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 613:PR Newswire 1999-2004/Dec 21
         (c) 2004 PR Newswire Association Inc
File 635:Business Dateline(R) 1985-2004/Dec 21
         (c) 2004 ProQuest Info&Learning
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 610:Business Wire 1999-2004/Dec 21
         (c) 2004 Business Wire.
File 369:New Scientist 1994-2004/Dec W2
         (c) 2004 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File  20:Dialog Global Reporter 1997-2004/Dec 21
         (c) 2004 The Dialog Corp.
File 624:McGraw-Hill Publications 1985-2004/Dec 21
         (c) 2004 McGraw-Hill Co. Inc
File 634:San Jose Mercury  Jun 1985-2004/Dec 19
         (c) 2004 San Jose Mercury News
File 647:CMP  Computer Fulltext 1988-2004/Dec W2
         (c) 2004 CMP Media, LLC
File 674:Computer News Fulltext 1989-2004/Dec W1
         (c) 2004 IDG Communications

Set     Items   Description
S1      31836   (IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR
             IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR
              ALPHANUMERIC?)
S2     112156   (DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR -
             TCPIP OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOT-
             TED(1W)QUAD? ?
S3      54372   DATASET? ? OR DATA()SET? ?
S4    6757095   FRAGMENT?? ? OR SEGMENT? OR SUBSET? ? OR SUB()SET? ? OR DI-
             VID? OR DIVISION? OR SUBDIVIS? OR SUBDIVID? OR PORTION? OR RE-
             DIVID? OR REDIVIS?
S5   11718688   SECTION? OR PIECE OR PIECES OR PARTIAL? OR PARTITION? OR P-
             ART OR PARTS
S6     202262   S4:S5(3N)(TEXT OR TEXTFILE? OR TEXTUAL OR TEXTDATA OR TEXT-
             MESSAG? OR ECONTENT? OR CONTENT? ? OR DATA OR FILE OR FILES OR
              MESSAGE? OR DOCUMENT? ?)
S7      58297   S4:S5(3N)RECORD? ?
S8          8   S4:S5(3N)(IMAGEFILE? OR MEDIAFILE? OR SOUNDFILE? OR SONGFI-
             LE? OR AUDIOFILE? OR AVFILE? OR VIDEOFILE? OR MUSICFILE?)
S9       9075   S4:S5(3N)OBJECT? ?
S10      7129   S1:S2(3N)(DYNAMIC? OR CHANG??? ? OR VARY? OR VARIE? OR VAR-
```

IANT? OR VARIAT? OR SHIFT? OR DIFFERENT OR ITERAT? OR PERMUT? OR VERSION?)
S11 379 S1:S2(3N)(ROTAT? OR RECONFIGUR? OR ALTERR? OR ALTER OR ALTERS OR ALTERED OR ALTERING OR ALTERATION? OR MODIFY? OR MODIFIE? ? OR MODIFICAT?)
S12 646 S1:S2(3N)(HETEROGEN? OR INHOMOGENE? OR DIVERS? OR ALTERNAT? OR SIWTCH? OR REDEFIN? OR RE()(CONFIGUR? OR DEFIN?????? ?))
S13 2523899 SERVER? OR HOST? ? OR RAS OR CLIENTSERVER? OR GATEWAY? OR GATE()WAY? ? OR MAILSERVER? OR MULTISERVER? OR WEBSERVER? OR FILESERVER? OR HTTPSERVER?
S14 3 S3(S)S10:S12
S15 24 S6:S9(S)S10:S12
S16 27 S14:S15
S17 10 S16/2002:2004
S18 17 S16 NOT S17
S19 16 RD (unique items)

19/3,K/1 (Item 1 from file: 696)
DIALOG(R)File 696:DIALOG Telecom. Newsletters

00733672
Signaling Pushes Its Way Into Protocol Brawl
CableFAX
July 6, 2000 VOL: 11 ISSUE: 131 DOCUMENT TYPE: NEWSLETTER
PUBLISHER: PHILLIPS BUSINESS INFORMATION
LANGUAGE: ENGLISH WORD COUNT: 729 RECORD TYPE: FULLTEXT

TEXT:
...a flow-controlled
transmission of messages in a number of independent SCTP streams. The protocol
segment **messages** and multiplexes **messages** in an IP packet. It also provides
fault tolerance at network level by supporting several...

...two IP subnets in the SCTP test network so that each computer could use two **IP** **addresses** from **different** subnets.
This is one of SCTP's biggest advantages, says Gloade, who also is a...

19/3,K/11 (Item 2 from file: 674)
DIALOG(R)File 674:Computer News Fulltext

076193
Check Point: Response to firewall RFP
Journal: Network World
Publication Date: July 19, 1999
Word Count: 2123 Line Count: 225

Text:
... provides users access to the Internet while conserving registered IP addresses and hiding the actual **IP** **addresses** of network resources. **Dynamic** mode uses a single IP address to hide all internal network resources. An unlimited number of internal IP addresses can be mapped to a single public **IP** **address** . Since the **IP** **address** used in **dynamic** mode is used only for outbound communication and not used by any internal

server or...

... in flexible Client/Server configurations across a broad range of platforms (see the Proposed Configuration **section** of this **document**). Diagram 2 shows a distributed Client/Server configuration. Diagram 2. Distributed Client/Server Configuration In...
? t19/3,k/15

19/3,K/15 (Item 6 from file: 674)
DIALOG(R)File 674:Computer News Fulltext

042310
SNMP scaffolding
Review
HP OpenView Network Node Manager helps administrators build a solid enterprise management framework.
Byline: Todd Coopee
Journal: Network World Page Number: 33
Publication Date: February 06, 1995
Word Count: 2050 Line Count: 188

Text:
... individual keys for each host/IP combination. Since each key is based on both the **IP address** and **host name** , **changing** either of these means you'll need a new key. While faxing a software certificate...searched by ipmap. For our tests, we configured ipmap to discover and map all the **objects** in the **segment** containing our management console and then had ipmap build a map of all the objects...
?

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200481
(c) 2004 Thomson Derwent

Set	Items	Description
S1	6761	(IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC?)
S2	4072	(DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR TCPIP OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOTTED(1W)QUAD? ?
S3	10888	DATASET? ? OR DATA()SET? ?
S4	2170516	FRAGMENT?? ? OR SEGMENT? OR SUBSET? ? OR SUB()SET? ? OR DIVID? OR DIVISION? OR SUBDIVIS? OR SUBDIVID? OR PORTION? OR REDIVID? OR REDIVIS?
S5	6192935	SECTION? OR PIECE OR PIECES OR PARTIAL? OR PARTITION? OR PART OR PARTS
S6	210684	S4:S5(3N)(TEXT OR TEXTFILE? OR TEXTUAL OR TEXTDATA OR TEXTMESSAG? OR ECONTENT? OR CONTENT? ? OR DATA OR FILE OR FILES OR MESSAGE? OR DOCUMENT? ?)
S7	8575	S4:S5(3N)RECORD? ?
S8	0	S4:S5(3N)(IMAGEFILE? OR MEDIAFILE? OR SOUNDFILE? OR SONGFILE? OR AUDIOFILE? OR AVFILE? OR VIDEOFILE? OR MUSICFILE?)
S9	30731	S4:S5(3N)OBJECT? ?
S10	711	S1:S2(3N)(DYNAMIC? OR CHANG??? ? OR VARY? OR VARIE? OR VARIANT? OR VARIAT? OR SHIFT? OR DIFFERENT OR ITERAT? OR PERMUT? OR VERSION?)
S11	43	S1:S2(3N)(ROTAT? OR RECONFIGUR? OR ALTERR? OR ALTER OR ALTERS OR ALTERED OR ALTERING OR ALTERATION? OR MODIFY? OR MODIFIE? ? OR MODIFICAT?)
S12	19	S1:S2(3N)(HETEROGEN? OR INHOMOGENE? OR DIVERS? OR ALTERNAT? OR SIWTCH? OR REDEFIN? OR RE()(CONFIGUR? OR DEFIN?????? ?))
S13	278081	SERVER? OR HOST? ? OR RAS OR CLIENTSERVER? OR GATEWAY? OR GATE()WAY? ? OR MAILSERVER? OR MULTISERVER? OR WEBSERVER? OR FILESERVER? OR HTTPSERVER?
S14	3	S3 AND S10:S12
S15	18	S6:S9 AND S10:S12
S16	6	S1:S2 AND S3 AND S13
S17	23	S14:S16
S18	23	IDPAT (sorted in duplicate/non-duplicate order)
S19	23	IDPAT (primary/non-duplicate records only)

19/9/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

016591913 **Image available**
WPI Acc No: 2004-750647/200474
XRPX Acc No: N04-593147
Distributed client message queuing communications platform, e.g. for email used by smart phones, sends events listing data changes instead of complete data set **, between terminal and** server
Patent Assignee: VISTO CORP (VIST-N)
Inventor: GRETTON M; STANDEN B; WOLOVITZ L
Number of Countries: 108 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2401011	A	20041027	GB 20048678	A	20040419	200474	B
WO 200495796	A1	20041104	WO 2004GB1688	A	20040419	200474	

Priority Applications (No Type Date): GB 20038989 A 20030417
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
GB 2401011 A 48 H04L-012/56
WO 200495796 A1 E H04L-029/06
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): GB 2401011 A

NOVELTY - In an asynchronous communication method, each message is individually acknowledged, authenticated and encrypted. An 'event' listing the changes to the data stored at the terminal or **server** is sent instead of sending a complete **data set** between the **server** and terminal. Messages containing the mobile terminal's ID can be mapped to the **dynamically** allocated **IP address** of the terminal.

DETAILED DESCRIPTION - A flow control algorithm is used by the platform to optimize the useful data rate by altering the flow rate to the available bandwidth.

The **server** and terminal can act together as a client to a second **server** . The system uses a middleware communications platform called MobileMQ (RTM) and a distributed application layer called Transcend Mail (RTM).

An INDEPENDENT CLAIM is also included for a method of data access, replication or communication.

USE - The system is used for wireless mobile terminals, e.g. smart phones in a General Packet Radio System (GPRS) or Universal Mobile Telephone System (UMTS) environment, and can be used for email.

ADVANTAGE - The distributed client model allows a mobile terminal to use the functionality of a full-featured client access to a **server** environment using minimum resources by distributing some of the functionality onto the **server** side. The system allows flexibility in the way workers GPRS mobile telephones are connected to their company's LAN. The system provides a session independent platform for data transfer which provides reliable delivery of messages over a network, even if an unreliable protocol is used, e.g. ATM, UDP/IP.

DESCRIPTION OF DRAWING(S) - The drawing shows a distributed client model.

pp; 48 DwgNo 6/9

Title Terms: DISTRIBUTE; CLIENT; MESSAGE; QUEUE; COMMUNICATE; PLATFORM; SMART; TELEPHONE; SEND; EVENT; LIST; DATA; CHANGE; INSTEAD; COMPLETE; DATA; SET; TERMINAL; SERVE
Derwent Class: T01; W01
International Patent Class (Main): H04L-012/56; H04L-029/06
File Segment: EPI
Manual Codes (EPI/S-X): T01-C03C; T01-D01; T01-M06A1A; T01-N01C; T01-N01D; T01-N02A3B; T01-N02A3C; T01-N02B1; W01-A03B; W01-A06C4; W01-A06G2; W01-C05B3J; W01-C05B4E

19/9/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015460058 **Image available**

WPI Acc No: 2003-522200/200349
XRPX Acc No: N03-414294
Data access provision method for client/ server **system, involves associating each subset of** data set **with selected** internet protocol address
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: TROVATO K; TROVATO K I
Number of Countries: 028 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030069981	A1	20030410	US 2001973311	A	20011009	200349	B
WO 200332603	A2	20030417	WO 2002IB3903	A	20020920	200349	
EP 1446932	A2	20040818	EP 2002800672	A	20020920	200454	
			WO 2002IB3903	A	20020920		
KR 2004041679	A	20040517	KR 2004705154	A	20040408	200460	

Priority Applications (No Type Date): US 2001973311 A 20011009
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030069981	A1		6	G06F-015/16	
WO 200332603	A2	E		H04L-029/06	
Designated States (National): CN JP KR					
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR					
EP 1446932	A2	E		H04L-029/06	Based on patent WO 200332603
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR					
KR 2004041679	A			H04L-012/28	

Abstract (Basic): US 20030069981 A1
NOVELTY - Each subset of a **data set** , is associated with a selected **internet protocol** (**IP**) **address** . Access is provided to each subset through a request for the subset at the selected **IP address** associated with the subset.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) a **server** system; and
(2) a client system.
USE - For providing access to data corresponding to web page and audio/visual recording in **server** system (claimed) from client system.

ADVANTAGE - Allows encryption of data to be performed in a short time period with minimal computational resources, while improving the security of IP data transfer.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of client/ **server** system.
pp; 6 DwgNo 2/3
Title Terms: DATA; ACCESS; PROVISION; METHOD; CLIENT; SERVE; SYSTEM; ASSOCIATE; SUBSET; DATA; SET; SELECT; PROTOCOL; ADDRESS
Derwent Class: T01
International Patent Class (Main): G06F-015/16; H04L-012/28; H04L-029/06
International Patent Class (Additional): H04L-029/12
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02A2C; T01-N02B1

19/9/8 (Item 8 from file: 350)

014952659 **Image available**
WPI Acc No: 2003-013172/200301

Apparatus for transmitting general packet data

Patent Assignee: LG ELECTRONICS INC (GLDS)
Inventor: LEE H S
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2002052499	A	20020704	KR 200081792	A	20001226	200301	B
KR 442356	B	20040730	KR 200081792	A	20001226	200476	

Priority Applications (No Type Date): KR 200081792 A 20001226
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002052499	A		1	H04L-012/66	
KR 442356	B			H04L-012/66	Previous Publ. patent KR 2002052499

Abstract (Basic): KR 2002052499 A

NOVELTY - An apparatus for transmitting general packet **data** is provided to **divide** a packet transmission path of a terminal using a dynamic IP(Internet Protocol) and a static IP and optimize its path.

DETAILED DESCRIPTION - A UTRAN(UMTS(Universal Mobile Telecommunications Systems) Terrestrial Radio Access Network)(2) receives a wireless packet data service request from a terminal(1) to output the received wireless packet data service request through wire, and provides packet data provided by the wire to the terminal(1) through wireless. An SGSN(Serving GPRS Support Node)(3) manages the position and mobility of the terminal(1), receives a packet data service requested by the terminal(1) through the UTRAN(2), and performs a call admission control function about the packet data service. In case that the terminal(1) uses a static IP, an HLR(Home Location Register)(4) stores the position region of the terminal(1) and informs the SGSN(3) number for paging. In case that the terminal(1) requests the packet data service using an static IP address, an S-GGSN(Static IP Gateway GPRS Support Node)(5) performs a gateway function for being matched with the Internet or intranet(6). In case that the terminal(1) requests a packet data service using a **dynamic IP address** , a D-GGSN(**Dynamic** IP Gateway GPRS Support Node)(6) assigns an IP address to the terminal(1), and performs the gateway function for being matched with the Internet or intranet(6).

pp; 1 DwgNo 1/10

Title Terms: APPARATUS; TRANSMIT; GENERAL; PACKET; DATA
Derwent Class: W01
International Patent Class (Main): H04L-012/66
File Segment: EPI
Manual Codes (EPI/S-X): W01-A06G3
?

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File   6:NTIS 1964-2004/Dec W1
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File   2:INSPEC 1969-2004/Dec W2
         (c) 2004 Institution of Electrical Engineers
File   8:Ei Compendex(R) 1970-2004/Dec W2
         (c) 2004 Elsevier Eng.  Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Dec W2
         (c) 2004 Inst for Sci Info
File  35:Dissertation Abs Online 1861-2004/Dec
         (c) 2004 ProQuest Info&Learning
File  65:Inside Conferences 1993-2004/Dec W3
         (c) 2004 BLDSC all rts. reserv.
File  94:JICST-EPlus 1985-2004/Nov W2
         (c)2004 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2004/Jun W1
         (c) 2004 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Nov
         (c) 2004 The HW Wilson Co.
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Dec 17
         (c) 2004 The Gale Group
File 144:Pascal 1973-2004/Dec W1
         (c) 2004 INIST/CNRS
File 202:Info. Sci. & Tech. Abs. 1966-2004/Nov 02
         (c) 2004 EBSCO Publishing
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
File 256:TecInfoSource 82-2004/Nov
         (c) 2004 Info.Sources Inc
File 266:FEDRIP 2004/Sep
        Comp & dist by NTIS, Intl Copyright All Rights Res
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 483:Newspaper Abs Daily 1986-2004/Dec 20
         (c) 2004 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning

Set     Items   Description
S1       4323   (IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR
            IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR
             ALPHANUMERIC?)
S2      22620   (DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR -
            TCPIP OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOT-
            TED(1W)QUAD? ?
S3     197356   DATASET? ? OR DATA()SET? ?
S4    2963633   FRAGMENT?? ? OR SEGMENT? OR SUBSET? ? OR SUB()SET? ? OR DI-
            VID? OR DIVISION? OR SUBDIVIS? OR SUBDIVID? OR PORTION? OR RE-
            DIVID? OR REDIVIS?
S5    5958571   SECTION? OR PIECE OR PIECES OR PARTIAL? OR PARTITION? OR P-
            ART OR PARTS
S6     155593   S4:S5(3N)(TEXT OR TEXTFILE? OR TEXTUAL OR TEXTDATA OR TEXT-
            MESSAG? OR ECONTENT? OR CONTENT? ? OR DATA OR FILE OR FILES OR
             MESSAGE? OR DOCUMENT? ?)
S7      10673   S4:S5(3N)RECORD? ?
S8          3   S4:S5(3N)(IMAGEFILE? OR MEDIAFILE? OR SOUNDFILE? OR SONGFI-
            LE? OR AUDIOFILE? OR AVFILE? OR VIDEOFILE? OR MUSICFILE?)
S9      23293   S4:S5(3N)OBJECT? ?
S10       875   S1:S2(3N)(DYNAMIC? OR CHANG??? ? OR VARY? OR VARIE? OR VAR-
            IANT? OR VARIAT? OR SHIFT? OR DIFFERENT OR ITERAT? OR PERMUT?
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            OR VERSION?)
S11          93   S1:S2(3N)(ROTAT? OR RECONFIGUR? OR ALTERR? OR ALTER OR ALT-
                  ERS OR ALTERED OR ALTERING OR ALTERATION? OR MODIFY? OR MODIF-
                  IE? ? OR MODIFICAT?)
S12         104   S1:S2(3N)(HETEROGEN? OR INHOMOGENE? OR DIVERS? OR ALTERNAT?
                   OR SIWTCH? OR REDEFIN? OR RE()(CONFIGUR? OR DEFIN?????? ?))
S13      915031   SERVER? OR HOST? ? OR RAS OR CLIENTSERVER? OR GATEWAY? OR -
                  GATE()WAY? ? OR MAILSERVER? OR MULTISERVER? OR WEBSERVER? OR -
                  FILESERVER? OR HTTPSERVER?
S14            2   S3 AND S10:S12
S15            3   S6:S9 AND S10:S12
S16            5   S14:S15
S17            1   S16/2002:2004
S18            4   S16 NOT S17
S19            4   RD (unique items)
```

File 347:JAPIO Nov 1976-2004/Aug(Updated 041203)
(c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200481
(c) 2004 Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2004/Dec W02
(c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20041216,UT=20041209
(c) 2004 WIPO/Univentio

Set	Items	Description
S1	81	AU=TROVATO K?
S2	21023	(IP OR INTERNET()PROTOCOL? ?)(2N)(ADDRESS? OR NUMBER? ? OR IDENTIFIER? OR IDENTIFICATION? OR NUMERAL? ? OR NUMERIC?? ? OR ALPHANUMERIC?)
S3	24506	(DOMAIN OR HOST OR SITE)(2N)(NAME OR NAMES) OR TCP()IP OR TCPIP OR TLD OR HOSTNAME? OR DOMAINNAME? OR FQDN OR SITENAME? OR DOTTED(1W)QUAD? ?
S4	5	S1 AND S2:S3

4/9/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015460058 **Image available**
WPI Acc No: 2003-522200/200349
XRPX Acc No: N03-414294
Data access provision method for client/server system, involves associating each subset of data set with selected internet protocol address
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: **TROVATO K ; TROVATO K I**
Number of Countries: 028 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030069981	A1	20030410	US 2001973311	A	20011009	200349	B
WO 200332603	A2	20030417	WO 2002IB3903	A	20020920	200349	
EP 1446932	A2	20040818	EP 2002800672	A	20020920	200454	
			WO 2002IB3903	A	20020920		
KR 2004041679	A	20040517	KR 2004705154	A	20040408	200460	

Priority Applications (No Type Date): US 2001973311 A 20011009
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030069981	A1		6	G06F-015/16	
WO 200332603	A2	E		H04L-029/06	
Designated States (National): CN JP KR					
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR					
EP 1446932	A2	E		H04L-029/06	Based on patent WO 200332603
Designated States (Regional): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR					
KR 2004041679	A			H04L-012/28	

Abstract (Basic): US 20030069981 A1
NOVELTY - Each subset of a data set, is associated with a selected **internet protocol (IP) address** . Access is provided to each subset through a request for the subset at the selected **IP address** associated with the subset.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a server system; and
(2) a client system.
USE - For providing access to data corresponding to web page and audio/visual recording in server system (claimed) from client system.
ADVANTAGE - Allows encryption of data to be performed in a short time period with minimal computational resources, while improving the security of IP data transfer.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of client/server system.
pp; 6 DwgNo 2/3
Title Terms: DATA; ACCESS; PROVISION; METHOD; CLIENT; SERVE; SYSTEM; ASSOCIATE; SUBSET; DATA; SET; SELECT; PROTOCOL; ADDRESS
Derwent Class: T01
International Patent Class (Main): G06F-015/16; H04L-012/28; H04L-029/06
International Patent Class (Additional): H04L-029/12
File Segment: EPI
Manual Codes (EPI/S-X): T01-N02A2C; T01-N02B1

4/5/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

01002573 **Image available**
IP HOPPING FOR SECURE DATA TRANSFER
SAUTS D'IP POUR TRANSMISSION DE DONNEES SECURISEE
Patent Applicant/Assignee:
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA Eindhoven, NL, NL (Residence), NL (Nationality)
Inventor(s):
TROVATO Karen , Prof . Holstlaan 6, NL-5656 AA Eindhoven, NL
Legal Representative:
GROENENDAAL Antonius W M (agent), Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200332603 A2-A3 20030417 (WO 0332603)
Application: WO 2002IB3903 20020920 (PCT/WO IB02003903)
Priority Application: US 2001973311 20011009
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
CN JP KR
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
Main International Patent Class: H04L-029/06
International Patent Class: H04L-029/12
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 3618

English Abstract
The **IP address** for requesting data within a data set is changed during the transfer of the data set. This changing address may include the **IP addresses** of different ports on a server, or may indicate the **IP addresses** of different servers. The pattern of changes of the **IP address** is known to both the client and the server(s), and preferably secret from others. Without knowing the pattern of changes of **IP addresses** , it will be difficult for an eavesdropper to intercept the data set. To further enhance the security of this approach, the server

system is configured to expect subsequent requests at the changed **IP address** . If the subsequent requests do not arrive within a threshold time period, the server system is configured to terminate further access to the data set by the requestor.

French Abstract

L'adresse IP destinee a la demande de donnees a l'interieur d'un ensemble de donnees est modifiee pendant le transfert de l'ensemble de donnees. Cette adresse changeante peut comprendre des adresses IP de ports differents sur un serveur ou indiquer les adresses IP de serveurs differents. Le diagramme des changements de l'adresse IP est connu au client comme au(x) serveur(s) mais est de preference cache aux autres. Sans connaitre les changements de l'adresse IP, il serait difficile a un materiel d'espionnage electronique d'intercepter l'ensemble de donnees. Pour augmenter davantage le degre de securite offert par cette technique, le systeme de serveur est configure pour attendre les demandes suivantes a l'adresse IP modifiee. Si les requetes subsequentes n'arrivent pas dans une periode de temps de seuil, le systeme de serveur est configure pour terminer l'acces ulterieur a l'ensemble de donnees par la partie emettrice de la demande

Legal Status (Type, Date, Text)
Publication 20030417 A2 Without international search report and to be republished upon receipt of that report.
Search Rpt 20040603 Late publication of international search report
Republication 20040603 A3 With international search report.

4/6/3 (Item 2 from file: 349)
00883982 **Image available**
METHODS AND APPARATUS FOR ELECTRONIC BOOKMARKING OF VENDOR LOCATIONS VIA A PERSONAL DIGITAL ASSISTANT OR OTHER USER DEVICE
PROCEDES ET APPAREIL DE MISE EN SIGNETS ELECTRONIQUE D'EMPLACEMENTS DE VENDEUR PAR LE BIAIS D'UN ASSISTANT NUMERIQUE PERSONNEL OU D'UN AUTRE DISPOSITIF D'UTILISATEUR
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 5022
Publication Year: 2002

4/6/4 (Item 3 from file: 349)
00823220 **Image available**
METHOD AND APPARATUS FOR PRESENTATION OF INTELLIGENT AND ADAPTIVE ALARMS, ICONS AND OTHER INFORMATION
PROCEDE ET APPAREIL DESTINES A LA PRESENTATION D'ALARMES, ICONES ET AUTRES INFORMATIONS ADAPTATIFS INTELLIGENTS
Publication Language: English
Filing Language: English
Fulltext Availability:
Detailed Description
Claims
Fulltext Word Count: 6862
Publication Year: 2001

4/6/5 (Item 4 from file: 349)
00773692
METHODS AND APPARATUS FOR PRESENTATION OF MULTIMEDIA INFORMATION IN

CONJUNCTION WITH BROADCAST PROGRAMMING

PROCEDES ET DISPOSITIF PERMETTANT LA PRESENTATION D'UNE INFORMATION MULTIMEDIA CONJOINTEMENT A UNE PROGRAMMATION DIFFUSEE

Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 6395
Publication Year: 2001
?